NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO ENDOWED

Date: 03.03.2021

NC/QC/VPD/2020-21/SB/WS-2-C1

I. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
(Project*: Improvements to Roads and Drains in Vinayakanagara, Kattigenahalli and Dwarakanagara Surrounding area in Ward No- 05.)

Ref. Material testing/PMC/20-21.

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SLP Infra Engineers Pvt Ltd (H.O. Yashaswini Complex, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53.
Type * : O.P.C.

TABLE 1.1:

Sl. No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	162 min	Shall not be less than 30 min
2	Final setting time	270 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	3.15%	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.0mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.75 N/Sq mm	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site: Palanahalli Road, From Kattigenahalli Gate Talkied to Lake.

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/SB/W5-2-PCC1

Date: 03-03-2021

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Roads and Drains in Vinayakanagara, Kattigenahalli and Dwarakanagara Surrounding area in Ward No: 05.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SLP Infra Engineers Pvt Ltd (H S Yashwanth Gowda), Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	66.05	0 -20	30- 70
10mm	32.80	0 -5	10- 35
4.75mm	3.55	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.25	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	81.60	60-95	75-100	85-100	
01.18	73.10	30-70	55-90	75-100	
600.mic	46.50	15-34	35-59	60-79	
300.mic	24.05	5-20	8-30	12-40	
150.mic	5.60	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Palanahalli Road, From Kattigenahalli Govt School to Lake.

Page No. 1/1,

NEWZEN CONSULTANT Bangalore K.R

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NC/QC/YPD/2020-21/SB/W5-2-C2

Date: 08-03-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads and Drains in Vinayakanagara, Kattigenahalli and Dwarakanagara Surrounding area in Ward No: 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SLP Infra Engineers Pvt Ltd (H S Yashwanth Gowda), Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	152 min	Shall not be less than 30 min
2	Final setting time	275 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.14%	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.02mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.55 N/Sq mm	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Palanahalli Road, From Kattigenahalli Govt School to Lake.

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/SB/W5-2-PCC2

Date: 08-03-2021

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Roads and Drains in Vinayakanagara, Kattigenahalli and Dwarakanagara Surrounding area in Ward No: 05.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SLP Infra Engineers Pvt Ltd (H S Yashwanth Gowda), Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**67.25**	0 -20	30- 70
10mm	**28.70**	0 -5	10- 35
4.75mm	**4.05**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**96.15**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**83.90**	60-95	75-100	85-100	
01.18	**71.05**	30-70	55-90	75-100	
600.mic	**46.25**	15-34	35-59	60-79	
300.mic	**22.85**	5-20	8-30	12-40	
150.mic	**6.10**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Palanahalli Road, From Kattigenahalli Govt School to Lake.

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NEWZEN CONSULTANT Bangalore

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NC/QC/YPD/2020-21/SB/W5-2-C3 Date: 12-03-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads and Drains in Vinayakanagara, Kattigenahalli and Dwarakanagara Surrounding area in Ward No: 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SLP Infra Engineers Pvt Ltd (H S Yashwanth Gowda), Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**158min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.19%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.06mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.85 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Muneshwara layout Main Road.

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/SB/W5-2-PCC3

Date: 12-03-2021

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Roads and Drains in Vinayakanagara, Kattigenahalli and Dwarakanagara Surrounding area in Ward No: 05.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SLP Infra Engineers Pvt Ltd (H S Yashwanth Gowda), Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	63.70	0 -20	30- 70
10mm	31.60	0 -5	10- 35
4.75mm	4.15	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	94.45	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	82.10	60-95	75-100	85-100	
01.18	71.25	30-70	55-90	75-100	
600.mic	46.90	15-34	35-59	60-79	
300.mic	24.50	5-20	8-30	12-40	
150.mic	7.05	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Muneshwara layout Main Road.

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/SB/W5-2-C4 **Date: 02-07-2021**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads and Drains in Vinayakanagara, Kattigenahalli and Dwarakanagara Surrounding area in Ward No: 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SLP Infra Engineers Pvt Ltd (H S Yashwanth Gowda), Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**162min**	Shall not be less than 30 min
2	Final setting time	**285 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.13%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.06 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.65 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Vinayakanagara, 2nd Main Rd, LHS from 2nd Cross Rd

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/SB/W5-2-PCC4

Date: 02-07-2021

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Roads and Drains in Vinayakanagara, Kattigenahalli and Dwarakanagara Surrounding area in Ward No: 05.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SLP Infra Engineers Pvt Ltd (H S Yashwanth Gowda), Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	64.25	0 -20	30- 70
10mm	29.60	0 -5	10- 35
4.75mm	3.85	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	93.25	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	81.55	60-95	75-100	85-100	
01.18	73.05	30-70	55-90	75-100	
600.mic	44.80	15-34	35-59	60-79	
300.mic	22.65	5-20	8-30	12-40	
150.mic	5.30	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Vinayakanagara, 2nd Main Rd, LHS from 2nd Cross Rd.

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Date: 05-07-2021

NC/QC/YPD/2020-21/SB/W5-2-C5

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads and Drains in Vinayakanagara, Kattigenahalli and Dwarakanagara Surrounding area in Ward No: 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SLP Infra Engineers Pvt Ltd (H S Yashwanth Gowda), Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	155 min	Shall not be less than 30 min
2	Final setting time	260 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.17%	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.09mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.45 N/Sq mm	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Vinayakanagara, 3rd Main Rd, LHS from Main Rd.

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/SB/W5-2-PCC5 **Date: 05-07-2021**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Roads and Drains in Vinayakanagara, Kattigenahalli and Dwarakanagara Surrounding area in Ward No: 05.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SLP Infra Engineers Pvt Ltd (H S Yashwanth Gowda), Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	63.60	0 -20	30- 70
10mm	28.45	0 -5	10- 35
4.75mm	3.90	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.65	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	84.30	60-95	75-100	85-100	
01.18	72.05	30-70	55-90	75-100	
600.mic	44.65	15-34	35-59	60-79	
300.mic	23.10	5-20	8-30	12-40	
150.mic	5.90	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Vinayakanagara, 3rd Main Rd, LHS from Main Rd..

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/SB/W5-2-C6 Date: 09-07-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads and Drains in Vinayakanagara, Kattigenahalli and Dwarakanagara Surrounding area in Ward No: 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SLP Infra Engineers Pvt Ltd (H S Yashwanth Gowda), Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	156 min	Shall not be less than 30 min
2	Final setting time	266min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.16%	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.03mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.95 N/Sq mm	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Vinayakanagara, 4th Main Rd, LHS from End.

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/SB/W5-2-PCC6

Date: 09-07-2021

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Roads and Drains in Vinayakanagara, Kattigenahalli and Dwarakanagara Surrounding area in Ward No: 05.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SLP Infra Engineers Pvt Ltd (H S Yashwanth Gowda), Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	66.45	0 -20	30- 70
10mm	28.10	0 -5	10- 35
4.75mm	3.70	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.35	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	84.65	60-95	75-100	85-100	
01.18	72.10	30-70	55-90	75-100	
600.mic	46.80	15-34	35-59	60-79	
300.mic	23.55	5-20	8-30	12-40	
150.mic	6.35	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Vinayakanagara, 4th Main Rd, LHS from End.

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NC/QC/YPD/2020-21/SB/W5-2-C7 **Date: 14-07-2021**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads and Drains in Vinayakanagara, Kattigenahalli and Dwarakanagara Surrounding area in Ward No: 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SLP Infra Engineers Pvt Ltd (H S Yashwanth Gowda), Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**161 min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.14%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.09mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.45 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Vinayakanagara, Connecting Drain 01.

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NEWZEN CONSULTANTS BANGALORE
NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/SB/W5-2-PCC7 Date: 14-07-2021

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Roads and Drains in Vinayakanagara, Kattigenahalli and Dwarakanagara Surrounding area in Ward No: 05.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SLP Infra Engineers Pvt Ltd (H S Yashwanth Gowda), Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	63.20	0 -20	30- 70
10mm	31.70	0 -5	10- 35
4.75mm	4.05	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.15	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	83.05	60-95	75-100	85-100	
01.18	71.55	30-70	55-90	75-100	
600.mic	45.90	15-34	35-59	60-79	
300.mic	24.40	5-20	8-30	12-40	
150.mic	6.10	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Vinayakanagara, Connecting Drain 01.

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NC/QC/YPD/2020-21/SB/W5-2-C8 **Date: 19-07-2021**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads and Drains in Vinayakanagara, Kattigenahalli and Dwarakanagara Surrounding area in Ward No: 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SLP Infra Engineers Pvt Ltd (H S Yashwanth Gowda), Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**156 min**	Shall not be less than 30 min
2	Final setting time	**270 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.13%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.08mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.65 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Vinayakanagara, 5th Main Rd, (SLV Appartment Rd)

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/SB/W5-2-PCC8 **Date: 19-07-2021**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to Roads and Drains in Vinayakanagara, Kattigenahalli and Dwarakanagara Surrounding area in Ward No: 05.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SLP Infra Engineers Pvt Ltd (H S Yashwanth Gowda), Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	65.80	0 -20	30- 70
10mm	28.50	0 -5	10- 35
4.75mm	3.90	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	94.60	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	83.10	60-95	75-100	85-100	
01.18	72.35	30-70	55-90	75-100	
600.mic	46.90	15-34	35-59	60-79	
300.mic	24.70	5-20	8-30	12-40	
150.mic	6.55	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Vinayakanagara, 5th Main Rd, (SLV Appartment Rd)

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NC/QC/YPD/2020-21/SB/W5-2-CE1 **Date: 10-03-2021**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads and Drains in Vinayakanagara, Kattigenahalli and Dwarakanagara Surrounding area in Ward No: 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SLP Infra Engineers Pvt Ltd (H S Yashwanth Gowda), Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**158 min**	Shall not be less than 30 min
2	Final setting time	**275min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.09%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.16 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.45 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Palanahalli Road, From Kattigenahalli Govt School to Lake.

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NC/QC/YPD/2020-21/SB/W5-2-FA1

Date: 10-03-2021

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Improvements to Roads and Drains in Vinayakanagara, Kattigenahalli and Dwarakanagara Surrounding area in Ward No: 05.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s SLP Infra Engineers Pvt Ltd (H S Yashwanth Gowda), Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	97.25	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	83.10	60-95	75-100	85-100	
01.18	71.25	30-70	55-90	75-100	
600. mic	45.85	15.34	35-59	60-79	
300.mic	22.35	5-20	8-30	12-40	
150.mic	7.85	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**17.66%**	-----
2	Silt Content	----	**0.59%**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Palanahalli Road, From Kattigenahalli Govt School to Lake.

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NC/QC/YPD/2020-21/SB/W5-2-CA1 **Date: 10-03-2021**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Improvements to Roads and Drains in Vinayakanagara, Kattigenahalli and Dwarakanagara Surrounding area in Ward No: 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SLP Infra Engineers Pvt Ltd (H S Yashwanth Gowda), Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	96.20	85-100	90 - 100
10 mm	44.75	0 - 20	25 - 55
4.75 mm	3.95	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	26.74%	Not to exceed 25 %
2.	Crushing value	28.96 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Palanahalli Road, From Kattigenahalli Govt School to Lake.

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NEW TECHNOLOGIES TO INNOVATE

NC/QC/YPD/2020-21/SB/W5-2-S1 **Date: 10-03-2021**

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 and 12 mm **TMT Steel.**
{Project*: Improvements to Roads and Drains in Vinayakanagara, Kattigenahalli and Dwarakanagara Surrounding area in Ward No: 05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s SLP Infra Engineers Pvt Ltd (H S Yashwanth Gowda), Bangalore.

TABLE – 1

L o	Details	For 10 mm		For 12 mm	
		Test Results	Min Req. as per IS 1786-2008	**Test Results**	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**10.0 mm**	10.0 mm	**12.0 mm**	12.0 mm
02	Observed Wt/m Length **Kg/m**	**0.624**	0.567	**0.893**	0.834
03	Proof stress/Yield stress, fy , **N/mm^2**	**560.0**	500.0	**556.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**19.80**	12.00	**20.70**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**638.0**	545.0	**625.0**	545.0

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Palanahalli Road, From Kattigenahalli Govt School to Lake.

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